Yin Lin

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Education

Shanghai Jiao Tong University (SJTU), Shanghai, China 2015 – Present

Bachelor in Computer Science, School of Electronic Information and Electrical Engineering. (CS)
GPA:3.80/4.3, 89.07/100

Research Intersts

Data Management, Distributed systems, Data mining

Publications

Y. Lin, X. Chen, X. Gao, B. Yao, G. chen, "R^2-Tree: An Efficient Indexing Scheme for Data Center Network", International Conference on Database and Expert Systems Applications 2018

Research Experience

Data Communication and Engineering Laboratory 2016/12-2017/12

Shanghai Jiao Tong University – PI: Prof. Xiaofeng Gao (SJTU)

- Goal : Design efficient indexing schemes for high dimensional data.
- R2-Tree is a scalable data center indexing scheme for high dimensional data. It follows the two layer indexing framework where we maintain a global index layer above the structured overlay. We use R-Tree to support both point and range query. Besides, bloom fliter is also realized to reduce the false possitive in the querying process. The experiments are conducted in Amazon's EC2 platform.

Data Communication and Engineering Laboratory 2017/12-present

Shanghai Jiao Tong University – PI: Prof. Xiaofeng Gao (SJTU)

- Goal : Use Reinforcement learning (RL) to dynamically schedule the flows in data center network and balance the workload.
- We use reinforcement learning to compute the optimal routing scheme in a global view, and use SDN centralized control to implement the routing scheme to Fat-tree data center network topology.

Mitacs Summer Intern 2018/6-present

University of Waterloo –PI: Prof. Meiyappan Nagappan (UW)

- Goal : Mining mobile software repositories to determine the metrics that best describe the quality of the mobile applications.
- We first developed program analysis to quantify aspects related to mobile applications and then statistically analyze whether there exists a relationship between different app designs and the ratings assigned to the app by the users.

Teaching Experience

Teaching Assistant for CS 499 *Mathematical Foundations of Computer Science*.

Skills

Programming Languages: C++, Python, C, Java, MATLAB, HTML/CSS/JS

Standard Tests

- TOEFL iBT: 96 (Reading 26, Listening 25, Speaking 23, Writing 22)
- GRE: 325+4 (Verbal:157, Quantitative:168, Analytical Writing:4)

Honors and Awards

Mathematical Contest In Modeling, Meritorious Winner (top 10%)	2017,2018
Chun Tsung Scholar from Shanghai Jiao Tong University (top 60 in SJTU)	2017
Outstanding members from Shanghai Jiao Tong University (roughly top 15%)	2017
Academic Scholarship from Shanghai Jiao Tong University (roughly top 10%)	2017
Huawei Scholarship (top 10 in CS department)	2017
Yitu Scholarship (top 6 in CS department)	2017
Cyrus Tang Scholarship	2017